## PATENT COOPERATION TREATY



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# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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INTERNAT	IONAL PRELIMINARY	EXAMINA	ATION REPORT
	(PCT Article 36 and	i Rule 70)	
Applicant's or agent's file reference	FOR FURTHER ACTION	See Notific Preliminary	cation of Transmittal of Internations Examination Report (Form PCT/IPEA/416
International application No. PCT/EP2003/003917	International filing date (day/s 15 April 2003 (15.0		Priority date (day/month/year) 19 April 2002 (19.04.2002)
International Patent Classification (IPC) or C02F 1/50	national classification and IPC		
Applicant	STADELMANN, H	einz, W.	
This international preliminary example and is transmitted to the applican	amination report has been prepar t according to Article 36.	ed by this Inte	rnational Preliminary Examining Authority
	of sheets, include	ding this cover	sheet.
amended and are the basis 70.16 and Section 607 of	panied by ANNEXES, i.e., sheets s for this report and/or sheets con the Administrative Instructions use total ofsheets	inder the PCT)	ation, claims and/or drawings which have be cations made before this Authority (see R
	Lain to the following items:	1	
<ol> <li>This report contains indications</li> <li>Basis of the report</li> </ol>		Ą	
II Priority  Non-establishm	nent of opinion with regard to no	velty, inventive	e step and industrial applicability
III Lack of unity o			
N Passaned state	ment under Article 35(2) with repaydanations supporting such state	gard to novelty ment	, inventive step or industrial applicability;
VI Certain docum	ents cited		
VII Certain defects	s in the international application		
VIII Certain observ	ations on the international applic	ation	
		oto of1	ion of this report
Date of submission of the demand			06 August 2004 (06.08.2004)
30 September 2003	(30.09.2003)	· · · · · · · · · · · · · · · · · · ·	00 August 2004 (00.00.2004)
Name and mailing address of the IPE	A/EP A	uthorized offic	cer
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#### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP2003/003917

I. Basis	of the re	port
1. With	regard to	the elements of the international application:*
	the inter	national application as originally filed
	the desc	ription:
		1-26 , as originally filed
	pages	, filed with the demand
	pages	, filed with the letter of
	the clai	ms <sup>,</sup>
لكا	pages	
	pages	, as amended (together with any statement under Article 19
<u> </u>	pages	, filed with the demand
}	pages	, filed with the letter of
	the drav	
	pages	
1	pages	1/4-4/4 , as originally filed , filed with the demand
{	pages	, filed with the letter of
	the second	
	-	nce listing part of the description:
}	pages pages	, as originally filed
	pages	, filed with the letter of, filed with the demand
2. With	th regard t	o the language, all the elements marked above were available or furnished to this Authority in the language in which nal application was filed, unless otherwise indicated under this item.
		tts were available or furnished to this Authority in the following language which is:
	the lar	guage of a translation furnished for the purposes of international search (under Rule 23.1(b)).
	the lar	guage of publication of the international application (under Rule 48.3(b)).
	the lar	aguage of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/3).
3. Wi	ith regard	to any nucleotide and/or amino acid sequence disclosed in the international application, the international examination was carried out on the basis of the sequence listing:
	contai	ned in the international application in written form.
	] filed t	ogether with the international application in computer readable form.
	furnis	hed subsequently to this Authority in written form.
1 🗆	furnis	hed subsequently to this Authority in computer readable form.
	The intern	statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the ational application as filed has been furnished.
		tatement that the information recorded in computer readable form is identical to the written sequence listing has furnished.
4.	The a	mendments have resulted in the cancellation of:
]		the description, pages
1		the claims, Nos.
		the drawings, sheets/fig
5.	This r	eport has been established as if (some of) the amendments had not been made, since they have been considered to go d the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**
in an	this repo d 70.17).	t sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to rt as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16)
An	у геріасе	ment sheet containing such amendments must be referred to under item 1 and annexed to this report.

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v.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability
	citations and explanations supporting such statement

Statement			
Novelty (N)	Claims	4-9,11-15	YES
	Claims	1-3,10,16	NO NO
Inventive step (IS)	Claims		YES
	Claims	1-16	NO
Industrial applicability (IA)	Claims	1-16	YES
	Claims		NO

#### 2. Citations and explanations

1. Reference is made to the following documents:

D1: DE10029082

D2: Römpp Chemie Lexikon, pages 67-68, 4154-4156,

9th edition, 1992, Georg Thieme-Verlag, Stuttgart

D2 was not cited in the international search report. A copy of the document is attached.

2. The application does not satisfy the requirements of PCT Article 6 because claims 10-15 are not clear:

As it is worded, claim 10 appears to relate to a product, yet it refers back to method claim 3. Contrary to PCT Article 6, the intended restrictions are not therefore clear from the claim. The same applies accordingly to dependent claims 11-15.

3. The subject matter of claims 1-3, 10 and 16 is not novel (PCT Article 33(2)):

D1 discloses a method for producing a sterilisation system wherein the surface of a noble metal is chemically etched, the noble metal being silver which is in the form of a base material comprising wire, wool or gauze (cf. D1,

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page 2, lines 48-54 and fig. 1-3). For a person skilled in the art the use of an oxidative acid such as nitric acid is therefore <u>implicitly</u> disclosed, the reasons being as follows:

- (i) The first claim of the present application contains in very general form only the method steps "acid oxidation of a noble metal surface" and "treatment in an aqueous salt solution". D1 discloses the chemical etching of an elemental silver surface (D1, page 2, lines 48-49). This is considered to be equivalent to "acid oxidation", since etching is generally defined as "modifying the surface of materials by the application of dissolving liquid or gaseous, chemically aggressive compounds" (D2, page 67, key word "Etching"). Furthermore, it is generally known that elemental silver (not just any oxide layer) is attacked chemically only by oxidising acids (cf. D2, pages 4154-4156, key word "Silver").
- (ii) The fact that D1 is concerned with the removal of passivation layers does not conflict with this, since the etching process also involves dissolution of the existing passivation layer. This does not rule out the formation of, for example, a silver nitrate layer when nitric acid is used as etchant.

Consequently, D1 is considered to be prejudicial to the novelty of claims 1-3, 10 and 16. If these claims were to be worded clearly, this might lead to the acknowledgement of formal novelty in respect of the subject matter of the application. However, there would still be doubt as to the involvement of an inventive step (PCT Article 33(3)) (combination of D1 and D2).

4. Dependent claims 4-9 and 11-15 contain only optional

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features which do not contribute directly to the solution of the problem addressed by the present application (page 5, fifth paragraph). The PCT inventive step requirements are not therefore satisfied (PCT Article 33(3)).